

Instructions for completing the ALRE MAF OPNAV Form 4790/160.

THE OPNAV 4790/160 ALRE MAF SERVES AS AN ACTIVE DIVISION EQUIPMENT HISTORICAL MAINTENANCE RECORD. ALL EQUIPMENT INSPECTIONS AND MAINTENANCE ACTIONS (SCHEDULED/UNSCHEDULED AND CORRECTIVE MAINTENANCE) ARE DOCUMENTED ON THE ALRE MAF.

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SECTION I INFORMATION									
1. SHIP'S UIC	2. W/C	3. JSN	4. APL/AEL	5. EQUIPMENT NOUN NAME	6. WND	7. STAT	8. CAS	9. DFR	10.

**1. SHIP'S UIC**

IDENTIFIES THE UIC OF THE ACTIVITY ORIGINATING THE MAINTENANCE ACTION. AUTOMATICALLY ENTERED IN OMMS. THIS BLOCK IS NOT REQUIRED TO BE FILLED OUT ON AN ALRE MAF UNLESS A HARD COPY WILL LEAVE THE COMMAND.

**2. W/C (WORK CENTER)**

ENTER THE 4-CHARACTER WORK CENTER CODE OF THE WORK CENTER INITIATING THE MAINTENANCE ACTION. EXAMPLE: VB01.

**3. JSN (JOB SEQUENCE NUMBER)**

ENTER THE 4-CHARACTER NUMBER ASSIGNED BY MAINTENANCE CONTROL

**4. APL/AEL (ALLOWANCE PARTS LIST/ALLOWANCE EQUIPMENT LIST).**

ENTER THE APL/AEL OF THE EQUIPMENT BEING REPORTED. THE MASTER INDEX OF APLs/AELs LISTS WHAT APLs/AELs ARE AVAILABLE AND CROSS REFERENCES VARIOUS EQUIPMENT IDENTIFICATION NUMBERS TO AN EXISTING APL/AEL.

**5. EQUIPMENT NOUN NAME**

ENTER THE EQUIPMENT NOMENCLATURE/DESCRIPTION ON WHICH MAINTENANCE IS BEING REPORTED. THE EQUIPMENT NOMENCLATURE/DESCRIPTION SHOULD BE THE SAME AS THAT IDENTIFIED BY THE EIC AND IS LIMITED TO 16 CHARACTERS.

**6. WND (WHEN DISCOVERED)**

ENTER THE CODE WHICH IDENTIFIES WHEN THE NEED FOR MAINTENANCE WAS DISCOVERED. THE CODES APPLICABLE TO THIS BLOCK ARE:

1. LIGHTING OFF OR STARTING
2. NORMAL OPERATION
3. DURING OPERABILITY TESTS
4. DURING INSPECTION
5. SHIFTING OPERATIONAL MODES
6. DURING PMS
7. SECURING
8. DURING AEC (ASSESSMENT OF EQUIPMENT CONDITION) PROGRAM
0. NOT APPLICABLE (TO BE USED WHEN REPORTING PRINTING SERVICES, ETC)

**7. STAT (STATUS)**

ENTER THE CODE WHICH MOST ACCURATELY DESCRIBES THE EFFECT OF THE FAILURE OR MALFUNCTION ON THE OPERATIONAL CAPABILITY OF THE EQUIPMENT OR SYSTEM WHEN THE NEED FOR MAINTENANCE WAS FIRST DISCOVERED. CODES APPLICABLE TO THIS BLOCK ARE:

- 1 = OPERATIONAL
- 2 = NON-OPERATIONAL
- 3 = REDUCED CAPABILITY
- 0 = NOT APPLICABLE (TO BE USED WHEN REPORTING PRINTING SERVICES, ETC)

**8. CAS (CAUSE)**

ENTER THE CODE BEST DESCRIBING THE CAUSE OF THE FAILURE OR MALFUNCTION WHEN THE NEED FOR MAINTENANCE WAS FIRST DISCOVERED. WHEN MORE THAN ONE CAUSE CONTRIBUTED TO THE FAILURE OR MALFUNCTION, SELECT THE PRIMARY OR OVERRIDING CAUSE. THIS BLOCK PROVIDES ESPECIALLY VALUABLE INFORMATION TO THE EQUIPMENT MANAGER. WITHOUT IT, ONLY THE FACT THAT NOT EXPECTED TO BE A TRAINED ENGINEER AND KNOW ABSOLUTELY THE CAUSE OF FAILURE, THEIR BEST JUDGEMENT IS DESIRED. CODES FOR THIS BLOCK ARE:

- |   |                         |  |
|---|-------------------------|--|
| 1 | ABNORMAL ENVIRONMENT    | EXPOSURE TO CONDITIONS MORE EXTREME THAN THOSE REASONABLY EXPECTED IN THE NORMAL SHIPBOARD ENVIRONMENT.  |
| 2 | MANUFACTURER            | MATERIAL NOT MANUFACTURED OR ASSEMBLED ACCORDING TO SPECIFICATIONS. (NOTE: IN THESE INSTALLATION DEFECTS CASES, AN ALRE QDR/HMR/EI SHOULD BE SUBMITTED IAW OPNAVINST 4790.15.) |
| 3 | LACK OF KNOWLEDGE OR    | - FAILURE OR MALFUNCTION OF THE EQUIPMENT DUE TO INSUFFICIENT TRAINING, EXPERIENCE, OR SKILL   |
| 4 | COMMUNICATION PROBLEM   | PHYSICAL COORDINATION OF THE OPERATOR, MAINTAINER, OR OTHER PERSONNEL.   |
| 5 | INADEQUATE INSTRUCTION/ | A BREAKDOWN IN THE PASSING, RECEIVING, OR UNDERSTANDING OF INFORMATION   |
| 6 | PROCEDURE               | THE INSTRUCTION OR PROCEDURAL GUIDE HAS OMISSIONS, ERRORS, AMBIGUITIES, OR OTHER DEFICIENCIES.   |
|   | INADEQUATE DESIGN       | (NOTE: IN THESE CASES AN ALRE TPDR SHOULD BE SUBMITTED IAW OPNAVINST 4790.15)  |
|   |                         | MATERIAL WHICH WAS MANUFACTURED AND INSTALLED IN ACCORDANCE WITH SPECIFICATIONS FAILED   |
|   |                         | PREMATURELY DURING NORMAL USAGE UNDER NORMAL ENVIRONMENTAL CONDITIONS. (NOTE: IN THESE CASES,  |
|   |                         | AN ALRE DISCREPANCY REPORT (ALRE QDR/HMR/EI) SHOULD BE SUBMITTED IAW OPNAVINST 4790.15.)   |
| 7 | NORMAL WEAR AND TEAR    | MATERIAL REQUIRES REPLACEMENT AFTER LONG SERVICE AND/OR AS A RESULT OF PMS.  |
| 0 | OTHER OR NO MALFUNCTION | EXPLAIN IN REMARKS.  |

**NOTE: EXAMPLES OF THE ABOVE CODES MAY BE FOUND IN OPNAVINST 4790.4.**

**9. DFR (DEFERRAL REASON).**

ENTER THE DEFERRAL REASON CODE WHICH BEST DESCRIBES THE REASON MAINTENANCE CANNOT BE DONE AT THE TIME OF DEFERRAL. THIS BLOCK MUST ALWAYS BE FILLED IN WHEN DOCUMENTING A DEFERRED MAINTENANCE ACTION. THE CODES FOR THIS BLOCK ARE:

- | CODE | DEFERRAL REASON              | WORK FOR WHICH CODE IS USED   |
|------|------------------------------|---|
| 1    | DUE TO SHIP'S FORCE WORK     | - WITHIN CAPABILITY OF SHIP TO ACCOMPLISH BUT UNABLE TO DO SO BECAUSE OF SHIP'S OVERALL |
|      | BACKLOG/OPERATIONAL PRIORITY | WORKLOAD OR OPERATIONAL   |
| 2    | LACK OF MATERIAL             | CONDITIONS WITHIN CAPABILITY OF SHIP'S FORCE BUT UNABLE TO ACCOMPLISH DUE TO LACK OF    |
|      |                              | PARTS, OR LACK OF TOOLS, TEST EQUIPMENT, ETC., SPECIFIED FOR REPAIR BY THE EQUIPMENT    |
|      |                              | TECHNICAL MANUAL OR DRAWING.  |
| 3    | NO FORMAL TRAINING ON        | SHOULD BE WITHIN CAPABILITY OF SHIP'S FORCE BUT PERSONNEL RESPONSIBLE HAVE THIS         |
|      |                              | EQUIPMENT NOT RECEIVED FORMAL TRAINING IN THE MAINTENANCE OF THE EQUIPMENT.             |
| 4    | FORMAL TRAINING INADEQUATE   | SHOULD BE WITHIN CAPABILITY OF SHIP'S FORCE, AND PERSONNEL RESPONSIBLE HAVE FOR THIS    |
|      |                              | EQUIPMENT RECEIVED FORMAL TRAINING, BUT THE TRAINING IS CONSIDERED INADEQUATE.          |
| 5    | INADEQUATE SCHOOL            | SHOULD BE WITHIN CAPABILITY OF SHIP'S FORCE, AND PERSONNEL RESPONSIBLE HAVE PRACTICAL   |
|      |                              | TRAINING RECEIVED FORMAL TRAINING, BUT PRACTICAL MAINTENANCE ASPECTS OF TRAINING ARE    |
|      |                              | CONSIDERED INADEQUATE.  |
| 6    | LACK OF FACILITIES           | THE SHIP IS NOT ALLOWED SHOP EQUIPMENT OR OTHER FACILITIES TO ACCOMPLISH; CAPABILITIES  |
|      |                              | WORK IS OTHERWISE BEYOND EXPECTED CAPABILITY OF SHIP'S FORCE ACCOMPLISH.                |
| 7    | NOT AUTHORIZED FOR SHIPS     | DIRECTIVES OF HIGHER AUTHORITY SPECIFY THAT THE JOB WILL BE DONE BY OTHER THAN SHIP'S   |
|      |                              | FORCE.  |
| 8    | FOR SHIP'S FORCE OVERHAUL    | FOR JOBS TO BE DONE BY SHIP'S FORCE DURING FORTHCOMING OVERHAUL OR AVAILABILITY.        |
| 9    | LACK OF TECHNICAL            | SHOULD BE WITHIN CAPABILITY OF SHIP TO ACCOMPLISH, BUT UNABLE TO DO SO BECAUSE          |
|      | DOCUMENTATION                | TECHNICAL MANUALS, BLUEPRINTS, DRAWINGS, ETC., NOT AVAILABLE                            |
| 0    | OTHER - OR - NOT APPLICABLE  | - IF "OTHER", DESCRIBE IN BLOCK 35-REMARKS  |

**10. THIS BLOCK IS RESERVED FOR TYCOM DIRECTED APPLICATIONS**

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11.	12.	13. IDENT/EQUIPMENT SERIAL NUMBER	14. EIC	15. SAFETY HAZARD	16. LOCATION	17. WND DATE			
18. ALTERATIONS SERVICE CHANGE - SHIP ALT				19. **	20. INSURV NUMBER	21. SUFFIX	22. U	23. S	24. P#

BLOCKS 11 and 12: THESE BLOCKS ARE RESERVED FOR TYCOM DIRECTED APPLICATIONS.

**13. IDENT/EQUIPMENT SERIAL NUMBER.**

ENTER THE IDENTIFICATION OR SERIAL NUMBER OF THE EQUIPMENT OR SYSTEM ON WHICH MAINTENANCE IS BEING PERFORMED OR DEFERRED. IF THERE IS NOT AN IDENTIFICATION OR SERIAL NUMBER, ENTER "N/A".

**14. EIC (EQUIPMENT IDENTIFICATION CODE).**

ENTER THE EQUIPMENT IDENTIFICATION CODE OF THE SYSTEM, SUBSYSTEM OR EQUIPMENT FOR WHICH THE MAINTENANCE IS BEING REPORTED.

**NOTE: BE AS SPECIFIC AS POSSIBLE. DO NOT ENTER A SYSTEM OR GENERAL ARRANGEMENT DRAWING EIC FOR AN EQUIPMENT THAT HAS ITS OWN SPECIFIC EIC.**

**15. SAFETY HAZARD.**

ENTER THE APPLICABLE SAFETY CODE WHEN, IN THE MAINTENANCE PERSON'S OPINION, THE DOCUMENTED MAINTENANCE ACTION DESCRIBES A PROBLEM OR CONDITION WHICH HAS CAUSED, OR HAS THE POTENTIAL TO CAUSE, INJURY TO PERSONNEL AND/OR DAMAGE TO MATERIAL. IF THE DOCUMENTED MAINTENANCE ACTION IS NOT SAFETY RELATED, ENTER "0".

1. CRITICAL SAFETY OR HEALTH DEFICIENCY - CORRECT IMMEDIATELY.
2. SERIOUS SAFETY OR HEALTH DEFICIENCY - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE USE IS REQUIRED.
3. MODERATE SAFETY OR HEALTH DEFICIENCY - WAIVER OF EQUIPMENT/SYSTEM/SPACE USE IS GRANTED PENDING CORRECTION OF THE ITEM.
4. MINOR SAFETY OR HEALTH DEFICIENCY.
5. NEGLIGIBLE SAFETY OR HEALTH DEFICIENCY.
0. MAINTENANCE ACTION IS NOT SAFETY RELATED.

**NOTE: SEE OPNAVINST 4790.4 FOR ADDITIONAL EXPLANATION.**

**16. LOCATION.**

ENTER THE LOCATION OF THE COMPONENT IDENTIFIED IN BLOCK 13 BY USING ONE OF THE METHODS LISTED BELOW:

1. COMPARTMENT: ENTER THE COMPARTMENT NUMBER IDENTIFIED ON THE COMPARTMENT CHECK-OFF LIST.
2. DECK-FRAME-SIDE: ENTER THE DECK, FRAME AND SIDE NOTATION THAT BEST DESCRIBES THE LOCATION OF THE COMPONENT.
3. IF NEITHER COMPARTMENT NOR THE DECK-FRAME-SIDE NOTATION IS APPROPRIATE, ENTER THE NAME OF THE LOCATION (E.G., FANTAIL, FLIGHT DECK, ETC.).

**NOTE: FORMAL DEFINITIONS OF SHIPBOARD LOCATIONS CAN BE FOUND IN THE GENERAL SPECIFICATION FOR SHIPS OF THE U.S. NAVY (NAVSEA PUB-AA-SPN-010/GEN-SPEC) (NOTAL).**

**17. WND DATE (WHEN DISCOVERED DATE).**

ENTER THE JULIAN DATE WHEN THE EQUIPMENT OR SYSTEM FAILURE OR MALFUNCTION WAS DISCOVERED. A JULIAN DATE IS A FOUR CHARACTER ENTRY AND IS COMPOSED OF THE LAST DIGIT OF THE CALENDAR YEAR FOLLOWED BY THE NUMERICAL DAY OF THE YEAR; I.E., 10 JANUARY 1992 IS "2010".

**NOTE: USE THE ACTUAL DATE THE DISCREPANCY/MALFUNCTION WAS DISCOVERED. IF THE OMMS COMPUTER IS DOWN WHEN DISCREPANCY IS ACTUALLY DISCOVERED, THE OPERATOR MAY HAVE TO MANUALLY CHANGE THIS DATE TO REFLECT THE ACTUAL "WHEN DISCOVERED DATE".**

**18. ALTERATIONS (SERVICE CHANGE - SHIPALT).**

FOR A SERVICE CHANGE: ENTER THE SERVICE CHANGE NUMBER.

FOR A SHIPALT: ENTER THE ALTERATION IDENTIFICATION EXACTLY AS IT APPEARS ON THE SHIPALT RECORD.

**NOTE: OPNAVINST 4790.4 CONTAINS ADDITIONAL INFORMATION.**

**BLOCKS 19 THROUGH 24: FOR INSURV USE - NO ENTRIES REQUIRED.**

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SECTION II DEFERRAL, ACTION	25. S/F MHRS EXP	26. DEFER DATE	27. S/F MHRS REM	28. DEADLINE DATE

**25. S/F MHRS EXP (SHIP'S FORCE MANHOURS EXPENDED).**

ENTER THE TOTAL MANHOURS (TO THE NEAREST WHOLE HOUR) EXPENDED BY PERSONNEL OF ALL WORK CENTERS INVOLVED IN THE MAINTENANCE ACTION UP TO THE TIME OF DEFERRAL (INCLUDE DOCUMENTATION TIME WHICH SHOULD NOT EXCEED 1 HOUR). IF TWO MEN SPEND 1.3 HOURS EACH IN DISASSEMBLING A COMPONENT, AND THEN DECIDE THAT OUTSIDE ASSISTANCE IS REQUIRED, THE ENTRY WOULD BE "0003" (2 TIMES 1.3 - 2.6, ROUNDED OFF TO 3.0 HOURS).

**NOTE: WHEN ENTERING DATE INTO OMMS TO OBTAIN A JSN, THIS BLOCK MUST CONTAIN A MINIMUM VALUE OF "1".**

**26. DEFER DATE (DEFERRAL DATE).**

ENTER THE JULIAN DATE WHEN THE MAINTENANCE ACTION WAS DEFERRED.

**27. S/F MHRS REM (SHIP'S FORCE MANHOURS REMAINING).**

ENTER THE ESTIMATED NUMBER OF SHIP'S FORCE MANHOURS REMAINING TO COMPLETE THE MAINTENANCE ACTION. ROUND OFF TO THE NEAREST WHOLE HOUR.

**28. DEADLINE DATE.**

THIS IS AN OPTIONAL ENTRY. THE ORIGINATOR OF THE DEFERRED ACTION MAY ENTER THE LATEST POSSIBLE JULIAN DATE THAT OUTSIDE ASSISTANCE AND SHIP'S FORCE WORK MUST BE COMPLETED. THIS ENTRY MAY BE USED TO INDICATE A COMPLETION DATE REQUIRED TO MEET AN OPERATIONAL COMMITMENT, OR TO ALLOW ANOTHER JOB TO START.

SECTION III COMPLETED ACTION	29. ACT TKN	30. S/F MHRS	31. COMPLETION DATE	32. ACT MAINT TIME	33. TI	34. METER READING
	DATE	TIME	DATE	TIME	DATE	TIME
START						
STOP						

**29. ACTION TKN (ACTION TAKEN).**

ENTER THE CODE WHICH BEST DESCRIBES THE ACTION TAKEN TO COMPLETE THE MAINTENANCE.

1. MAINTENANCE COMPLETED; PARTS DRAWN FROM SUPPLY.
2. MAINTENANCE COMPLETED; REQUIRED PARTS NOT DRAWN FROM SUPPLY (LOCAL MANUFACTURE, PRE-EXPENDED BINS, ETC.).
3. MAINTENANCE COMPLETED, NO PARTS REQUIRED.
4. CANCELLED.
0. NOT APPLICABLE; DESCRIBE IN BLOCK 35 - REMARKS.

**30. S/F MHRS (SHIP'S FORCE MANHOURS EXPENDED).**

**FOR A MAINTENANCE ACTION:** ENTER THE TOTAL MANHOURS (TO THE NEAREST WHOLE HOUR) THAT SHIP'S FORCE EXPENDED DOING THE MAINTENANCE. **TOTAL MAINTENANCE TIME, INCLUDING MAINTENANCE SUPPORT MANHOURS, MUST BE DOCUMENTED IN THIS BLOCK.**

**FOR A CONFIGURATION CHANGE (CK):** ENTER THE TOTAL NUMBER OF MANHOURS (TO THE NEAREST WHOLE HOUR) USED BY SHIP'S FORCE TO COMPLETE AND DOCUMENT THE MAINTENANCE ACTION (DOCUMENTATION TIME SHOULD NOT EXCEED 1 HOUR).

**31. COMPLETION DATE.**

ENTER THE JULIAN DATE THE MAINTENANCE WAS COMPLETED.

**32. ACT MAINT TIME (ACTIVE MAINTENANCE TIME).**

THIS BLOCK IS NOT NORMALLY USED BY V-2 DIVISION PERSONNEL. (SEE OPNAVINST 4790.4 (NOTAL) FOR ADDITIONAL INFORMATION.)

**33. TI (TROUBLE ISOLATION).**

THIS BLOCK IS NOT NORMALLY USED BY V-2 DIVISION PERSONNEL. (SEE OPNAVINST 4790.4 (NOTAL) FOR ADDITIONAL INFORMATION.)

**34. METER READING.**

THIS BLOCK IS NOT NORMALLY USED BY V-2 DIVISION PERSONNEL. (SEE OPNAVINST 4790.4 (NOTAL) FOR ADDITIONAL INFORMATION.)

**NOTE: ENTER HIT/SHOT/VLA INFORMATION IN THE SPACE PROVIDED IN THE "ADDITIONAL ALREMP INFORMATION" SECTION.**

**START/STOP TIMES.**

ENTER JULIAN DATE AND START/STOP TIMES EACH TIME THE JOB GOES "IN WORK", AWM, OR AWP, AS APPROPRIATE.

**NOTE: THE JULIAN DATE AND START/STOP TIMES ARE NOT ENTERED INTO OMMS. THIS INFORMATION WILL BE ANNOTATED ON THE HARD COPY ALRE MAF TO ASSIST IN TRACKING JOB PROGRESS. MANHOURS WILL BE TRACKED SEPARATELY BY THE WORK CENTER SUPERVISOR. TOTAL MANHOURS (TO THE NEAREST WHOLE HOUR) WILL BE ANNOTATED IN BLOCK 30.**

NOTE

WHEN COMPLETING AN ALRE MAF TO DOCUMENT WORK  
ACCOMPLISHED BY AN OUTSIDE ACTIVITY, REFER TO PARAGRAPH 9.11.6  
FOR ADDITIONAL INSTRUCTIONS.

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<b>SECTION IV REMARKS/DESCRIPTION</b>							
35. REMARKS/DESCRIPTION							
36. CONT SHEET							
37. CSMP SUMMARY							
38. FIRST CONTACT/MAINT MAN (PRINT/SIGN)	39. RATE	40. SECOND CONTACT/SUPERVISOR (PRINT/SIGN)	41. PRI	42. T/A	43. INTEGR PRI	44. IUC	45. TYCOM

**35. REMARKS/DESCRIPTION.**

ENTER REMARKS RELATING TO THE MAINTENANCE ACTION. THESE REMARKS SHOULD BE BRIEF BUT COMPLETE AND MEANINGFUL. IF A SAFETY HAZARD CODE (OTHER THAN "0") IS ENTERED IN BLOCK 15, A DESCRIPTION OF THE CONDITION CREATING THE HAZARD SHOULD BE INSERTED HERE. IF MORE SPACE IS NEEDED, CHECK BLOCK 36 AND ENTER THE JCN OF THE FIRST FORM ON A SECOND ALRE MAF AND CONTINUE THE REMARKS. FILL OUT THE PAGE \_ OF \_ (IN THE BOTTOM RIGHT CORNER) AS APPROPRIATE. THE REMARKS ENTERED IN BLOCK 35 REMARKS/DESCRIPTION ARE USED TO PROVIDE MAINTENANCE HISTORY.

**NOTE: PRECISE AND CONCISE STATEMENTS SHOULD BE USED IN BLOCK 35 REMARKS/DESCRIPTION. THEY SHOULD INCLUDE SUFFICIENT INFORMATION TO CLEARLY IDENTIFY THE PROBLEM AND ITS RESOLUTION.**

**36. CONT. SHEET (CONTINUATION SHEET).**

ENTER AN "X" WHEN IT IS NECESSARY TO CONTINUE THE REMARKS ON A SECOND ALRE MAF.

**37. CSMP SUMMARY.**

ENTER A CONDENSED DESCRIPTION OF THE PROBLEM. THIS ENTRY IS USED IN THE CSMP SUMMARY REPORT NO. 1 FOR ALRE PMS. THE ENTRY SHOULD READ: "PMS IAW PERIODICITY CODE", I.E., PMS IAW M-1.

**38. FIRST CONTACT/MAINT. (MAINTENANCE) MAN (PRINT/SIGN).**

PRINT THE NAME OF THE SENIOR PERSON ACTIVELY ENGAGED IN THE MAINTENANCE ACTION. THIS INDIVIDUAL'S SIGNATURE SHALL ALSO BE ENTERED IN THIS BLOCK PRIOR TO FORWARDING THE COMPLETED ALRE MAF TO MAINTENANCE CONTROL.

**39. RATE. ENTER THE RATE OF the FIRST CONTACT/MAINTENANCE MAN.****40. SECOND CONTACT/SUPERVISOR (PRINT/SIGN).**

PRINT THE NAME OF SUPERVISOR OF THE FIRST CONTACT/MAINTENANCE MAN. THE SUPERVISOR'S SIGNATURE SHALL ALSO BE ENTERED IN THIS BLOCK AFTER HE/SHE SCREENS THE ALRE MAF FOR COMPLETENESS AND ACCURACY, AND PRIOR TO FORWARDING IT TO MAINTENANCE CONTROL.

**NOTE: IF THE NAME AND SIGNATURE APPEARING IN BLOCK 40 OF THE ALRE MAF ARE DIFFERENT THAN THAT AUTOMATICALLY APPEARING ON THE OMMS SCREEN, THE OMMS OPERATOR SHALL REVISE/CORRECT THE OMMS ENTRY TO MATCH THAT NAME APPEARING ON THE ALRE MAF.**

**41. PRI (PRIORITY).**

ENTER THE APPROPRIATE PRIORITY CODE LISTED BELOW, APPLICABLE TO MAINTENANCE ACTIONS BEING DEFERRED.

- |                     |   |
|---------------------|---|
| 1. MANDATORY        | CRITICAL SAFETY OR DAMAGE CONTROL ITEM. REQUIRED FOR PERFORMANCE OF SHIP'S MISSION. REQUIRED TO SUSTAIN BARE MINIMUM ACCEPTABLE LEVEL OF HUMAN NEEDS AND SANITATION. C-4 CASREP (CASUALTY REPORT) ON EQUIPMENT.   |
| 2. ESSENTIAL        | EXTREMELY IMPORTANT SAFETY OR DAMAGE CONTROL ITEM. REQUIRED FOR SUSTAINED PERFORMANCE OF SHIP'S MISSION. REQUIRED TO SUSTAIN NORMAL LEVEL OF BASIC HUMAN NEEDS AND SANITATION. REQUIRED TO MAINTAIN OVERALL INTEGRITY OF SHIP OR A SYSTEM ESSENTIAL TO SHIP'S MISSION. REQUIRED FOR MINIMUM ACCEPTABLE LEVEL OF PRESERVATION AND PROTECTION. C-3 CASREP ON EQUIPMENT.         |
| 3. HIGHLY DESIRABLE | IMPORTANT SAFETY OR DAMAGE CONTROL ITEM. REQUIRED FOR EFFICIENT PERFORMANCE OF SHIP'S MISSION. REQUIRED FOR NORMAL LEVEL OF HUMAN COMFORT. REQUIRED FOR OVERALL INTEGRITY OF EQUIPMENT OR SYSTEMS THAT ARE NOT ESSENTIAL, BUT ARE REQUIRED AS BACKUPS IN CASE OF PRIMARY SYSTEM FAILURE. REQUIRED TO ACHIEVE MINIMUM ACCEPTABLE LEVEL OF APPEARANCE. C-2 CASREP ON EQUIPMENT. |
| 4. DESIRABLE        | SOME CONTRIBUTION TO EFFICIENT PERFORMANCE. SOME CONTRIBUTION OF NORMAL LEVEL OF HUMAN COMFORT AND WELFARE. REQUIRED FOR OVERALL INTEGRITY OF OTHER THAN AN ESSENTIAL SYSTEM OR ITS BACKUP SYSTEM. WILL CONTRIBUTE TO APPEARANCE IN AN IMPORTANT AREA. WILL SIGNIFICANTLY REDUCE FUTURE SHIP MAINTENANCE.   |

**42. T/A (TYPE AVAILABILITY CODE).**

ENTER THE CODE FOR THE TYPE AVAILABILITY RECOMMENDED FOR PERFORMANCE OF A DEFERRAL. TYPE AVAILABILITY CODES ARE AS FOLLOWS:

- |     |   |
|-----|---|
| 1 = | DEPOT (SHIPYARD OR SHIP REPAIR FACILITY).   |
| 2 = | INTERMEDIATE MAINTENANCE ACTIVITY (IMA) (TENDER/REPAIR SHIP, SIMA, ETC.)                                      |
| 3 = | TYCOM SUPPORT UNIT (FLOATING DRY DOCK OR TECHNICAL ASSISTANCE FROM NSCS/NAVSEACEN/CONTRACTOR REPRESENTATIVE). |
| 4 = | SHIP'S FORCE.   |
| 0 = | NOT APPLICABLE.   |

**NOTE: THERE MUST BE A CORRELATION BETWEEN THE DEFERRAL REASON CODE, BLOCK 9, AND THIS BLOCK.**

**43. INTEGR PRI (INTEGRATED PRIORITY).**

IF THE MAINTENANCE IS TO BE DONE BY AN OUTSIDE ACTIVITY, A SEQUENTIAL NUMBER MAY BE PLACED IN THIS BLOCK TO INDICATE ITS PRIORITY RELATIVE TO OTHER DEFERRED WORK FOR A GIVEN AVAILABILITY.

**44. IUC (SCREENING).**

THIS BLOCK IS NOT NORMALLY USED BY V-2 DIVISION PERSONNEL. (SEE OPNAVINST 4790.4 (NOTAL) FOR ADDITIONAL INFORMATION.)

**45. TYCOM (SCREENING).** THIS BLOCK IS NOT NORMALLY USED BY V-2 DIVISION PERSONNEL. (SEE OPNAVINST 4790.4 (NOTAL) FOR ADDITIONAL INFORMATION.)

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ADDITIONAL ALREMP INFORMATION											
SUBMIT 4790/CK?		P.C.D	ALRE MAF CODES			CORROSION CODES		SAFETY TAG INFORMATION		RED TAG SER. NO.	SHOT/HIT/VLA
YES NO			WIND	EXT DAMAGE	TYPE MAF	TYPE	ACT. TKN.	SAFETY TAGS REQUIRED?			
<input type="checkbox"/> <input type="checkbox"/>								YES NO			
								IF YES, HOW MANY?			

SUBMIT 4790/CK?

**MANDATORY FOR HARDCOPY.** CHECK THE YES OR NO BLOCK TO INDICATE WHETHER OR NOT AN OPNAV 4790/CK NEEDS TO BE SUBMITTED; I.E., YES WOULD BE CHECKED WHEN REPORTING ACCOMPLISHMENT OF A SERVICE CHANGE, SHIP ALTERATION OR CONFIGURATION CHANGE.

**NOTE: IF THIS BLOCK IS CHECKED "YES" ON THE ALRE MAF, THE REQUIRED 4790/CK SHOULD BE ATTACHED TO THE ALRE MAF.**

P/C/O BLOCK.

**MANDATORY FOR HARDCOPY AND OMMS.** ENTER THE CORRECT CODE:

P: PREVENTATIVE - THAT MAINTENANCE ACCOMPLISHED USING AN MRC CARD, OTHER THAN AC@ CARDS, AS GUIDANCE TO PERFORM THE MAINTENANCE. EXAMPLES: PRE-OP INSPECTIONS, POST-OP INSPECTIONS, WEEKLY, MONTHLY, QUARTERLY, SEMI-ANNUAL, SITUATIONAL REQUIREMENTS, LAY-UP MAINTENANCE (AS LISTED ON MIP PAGES), MIP SCHEDULING AIDS. ANY MAINTENANCE ACCOMPLISHED USING TECHNICAL MANUALS THAT IS DIRECTED BY THE MIP PAGE, SHALL BE CONSTRUED AS PREVENTATIVE MAINTENANCE.

C: CORRECTIVE - THAT MAINTENANCE ACCOMPLISHED USING THE TECHNICAL MANUAL OR AC@ CARDS AS GUIDANCE TO PERFORM THE MAINTENANCE. EXAMPLES: REPACK OF ANCHOR DAMPERS IAW NAVAIR 51-5BCA-1.1.

O: OTHER - THOSE ACTIONS OTHER THAN PREVENTATIVE OR CORRECTIVE. EXAMPLES: INSTALLING A SERVICE CHANGE, COMPLYING WITH A SERVICE BULLETIN, COMPLETING A REPAIR PROCEDURE, COMPLETING AN ALTERATION, COMPLYING WITH A NAVAL MESSAGE, OR ANY PRESERVATION WORK ON ALRE EQUIPMENT.

ALRE MAF CODE - WHEN DISCOVERED.

**MANDATORY FOR HARDCOPY AND OMMS.** ENTER THE APPROPRIATE CODE BELOW TO INDICATE WHEN THE EQUIPMENT MALFUNCTIONED.

- 0 - NO DEFECT - PLANNED MAINTENANCE (PMS).
- 1 - NO DEFECT - PRECAUTIONARY MAINTENANCE.
- 2 - DISCOVERED DURING OPERATIONS.
- 3 - DISCOVERED DURING PRE/POST OPERATIONAL INSPECTION.
- 4 - DISCOVERED DURING PLANNED MAINTENANCE.
- 5 - DISCOVERED DURING NON-PMS INSPECTION.
- 6 - REMOVAL/REPLACEMENT DIRECTED BY HIGHER AUTHORITY.
- 7 - EQUIPMENT DAMAGED BY MALFUNCTION OF ASSOCIATED EQUIPMENT.

ALRE MAF CODE - EXTENT DAMAGE.

**MANDATORY FOR HARDCOPY AND OMMS.** ENTER THE MOST APPROPRIATE CODE BELOW TO INDICATE THE EXTENT OF DAMAGE SUFFERED BY THE MALFUNCTIONING EQUIPMENT.

- 0 - NO FAILURE.
- 1 - CATASTROPHIC FAILURE (FAILURE DAMAGED OTHER EQUIPMENT).
- 2 - SERIOUS FAILURE (UNIT MISSION DEGRADED UNTIL REPAIRED, I.E., C-2 CASREP).
- 3 - MAJOR FAILURE (EQUIPMENT DOWN UNTIL OUTSIDE ASSISTANCE REPAIRS).
- 4 - MINOR FAILURE (EQUIPMENT DOWN UNTIL REPAIR BY SHIP'S FORCE PERSONNEL).
- 5 - DEGRADED CONDITION (EQUIPMENT OPERABLE WITH LIMITATIONS).

ALRE MAF CODE - TYPE MAF.

**MANDATORY FOR HARDCOPY AND OMMS.** ENTER THE MOST APPROPRIATE CODE BELOW TO INDICATE THE TYPE OF EQUIPMENT MALFUNCTION.

- 0 - NO DEFECT.
- 1 - CORROSION.
- 2 - BURNED/OVERHEATED.
- 3 - BROKEN, BENT, DEFORMED.
- 4 - OUT OF ADJUSTMENT.
- 5 - JAMMED, BINDING.
- 6 - FAILED NDI.
- 7 - ABNORMAL OPERATION.
- 8 - FALLS OUTSIDE NORMAL ACCEPTABLE PARAMETERS.
- 9 - ABNORMAL WEAR.
- A - SCORED, GOUGED.
- B - ABNORMAL A/G RAM TRAVEL.
- C - ABNORMAL CATAPULT ENDSPEED.
- D - ELECTRICAL/ELECTRONIC COMPONENT FAILURE.
- E - LEAKING.

CORROSION CODE - TYPE.

**MANDATORY FOR HARDCOPY AND OMMS.** ENTER THE MOST APPROPRIATE CODE BELOW TO INDICATE THE TYPE OF CORROSION PRESENT. SEE APPENDIX C FOR AMPLIFYING INFORMATION.

- 0 - NO CORROSION.
- 1 - UNIFORM ATTACK.
- 2 - PITTING CORROSION.
- 3 - CREVICE CORROSION.
- 4 - EXFOLIATION (FLAKING).

CORROSION CODE - ACT. TKN. (ACTION TAKEN).

**MANDATORY FOR HARDCOPY AND OMMS.** ENTER THE MOST APPROPRIATE CODE BELOW TO INDICATE THE CORROSION CONTROL ACTION TAKEN. SEE APPENDIX C FOR AMPLIFYING INFORMATION.

- 0 - NO ACTION REQUIRED.
- 1 - REMOVE CORROSION; APPLY OIL, GREASE, PRESERVATIVE.
- 2 - REMOVE CORROSION; APPLY TEMPORARY COATING.
- 3 - REMOVE CORROSION; APPLY APPROVED COATING.
- 4 - REMOVE PART FOR IMA/DEPOT CORROSION CONTROL.
- 5 - NO CORROSION CONTROL ACTION TAKEN, DEFERRAL SUBMITTED.

SAFETY TAGS REQUIRED?

**MANDATORY ENTRY FOR HARDCOPY. OPTIONAL ENTRY IN OMMS.** ENTER "X" IN THE APPROPRIATE BLOCK TO INDICATE WHETHER OR NOT THE MAINTENANCE BEING PERFORMED REQUIRES A SAFETY TAG.

IF YES, HOW MANY? - **MANDATORY ENTRY FOR HARDCOPY. OPTIONAL ENTRY IN OMMS.** ENTER THE TOTAL NUMBER OF SAFETY TAGS REQUIRED (UP TO A TOTAL OF 99).

RED TAG SER. NO.

**MANDATORY ENTRY FOR HARDCOPY. OPTIONAL ENTRY IN OMMS.** ENTER THE FIRST RED TAG SERIAL NUMBER OF THE TAG SEQUENCE FOR THIS PARTICULAR MAINTENANCE TASK. IF MORE THAN ONE SEQUENCE OF TAGS ARE REQUIRED, AND THEY ARE NOT IN SEQUENTIAL ORDER, ANNOTATE THE FIRST SEQUENCE IN THIS BLOCK, AND ALL OTHER SEQUENCES IN THE BLOCK 35 NARRATIVE. THE TOTAL NUMBER OF RED TAGS IN ALL SEQUENCES MUST BE ANNOTATED IN THE "HOW MANY" BLOCK.

SHOT/HIT/VLA

**MANDATORY FOR HARDCOPY AND OMMS.** ENTER THE APPROPRIATE NUMBER AS DESCRIBED BELOW:

- FOR **CATAPULT ARRESTING GEAR FRESNEL LENS** AND ASSOCIATED SUBSYSTEM COMPONENTS, ENTER THE NUMBER OF CATAPULT LAUNCHES, ARRESTED LANDINGS, OR THE FOLS METER READING AS APPROPRIATE.

- FOR **JET BLAST DEFLECTORS** (JBD), ENTER THE TOTAL LAUNCHES FOR THE RESPECTIVE CATAPULT.

- FOR **HOLDBACKS**, ENTER THE TOTAL CATAPULT LAUNCHES RECORDED FOR THAT INDIVIDUAL HOLDBACK.

- FOR **VLA EQUIPMENT**, IF THERE IS A SPECIFIC METER READING, ENTER THAT METER READING.

- FOR **HEADS-UP DISPLAY** (HUD), ENTER THE METER READING FROM AUXILIARY ELECTRONICS BOX UNIT TWO.

- FOR **OTHER EQUIPMENT** WITHOUT A SPECIFIC METER READING, ENTER MONTHS SINCE NEW/OVERHAUL.

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COMPONENT PART NUMBER		MIP CONTROL NO (MIP #)		MRC CODE
Q A	1ST QA INSP BY (PRINT/SIGN)	2ND QA INSP BY (PRINT/SIGN)	FINAL QA INSP BY (PRINT/SIGN)	V-2 MAINT OFFICER (PRINT/SIGN)

**COMPONENT PART NUMBER****MANDATORY ENTRY FOR HARDCOPY AND OMMS.**

ENTER THE PART NUMBER OF THE COMPONENT BEING WORKED ON. PART NUMBERS OF REPLACEMENT PIECE COMPONENTS FROM SUPPLY/PRE-EX BINS/ETC. SHOULD BE ANNOTATED IN THE MATERIAL CONTROL SECTION.

**MIP CONTROL NO.****MANDATORY HARDCOPY ENTRY. OPTIONAL ENTRY IN OMMS.**

**A. PREVENTATIVE MAINTENANCE (PMS):** THE MIP CONTROL NUMBER IS FOUND AT THE BOTTOM RIGHT CORNER OF THE MAINTENANCE INDEX PAGE. IT IS A FOUR-SEGMENT CODE. THE FIRST SEGMENT IDENTIFIES THE EQUIPMENT GROUP AND MAY CONTAIN FROM ONE TO THREE CHARACTERS FOLLOWED BY A DASH (-). THE SECOND SEGMENT IDENTIFIES A SPECIFIC SUBGROUP/COMPONENT NUMBER WITHIN AN EQUIPMENT GROUP AND MAY CONTAIN FROM ONE TO THREE CHARACTERS FOLLOWED BY A SLASH (/). THE THIRD SEGMENT IDENTIFIES A DISTINCT VERSION WITHIN THAT EQUIPMENT SUBGROUP AND MAY CONTAIN FROM ONE TO THREE CHARACTERS FOLLOWED BY A DASH (-). THE FOURTH SEGMENT CONTAINS TWO CHARACTERS WHICH IDENTIFY THE MONTH AND YEAR THE MIP WAS PREPARED. PRELIMINARY MIPS WITHOUT MRCS ARE NUMBERED SEQUENTIALLY STARTING WITH "01" IN THE FOURTH SEGMENT TO IDENTIFY THE REVISION.

**B. CORRECTIVE MAINTENANCE:** IF A CORRECTIVE MAINTENANCE CARD WAS USED, ENTER THE CORRECTIVE MAINTENANCE MIP IN THIS BLOCK.

**MRC CODE.****MANDATORY HARDCOPY ENTRY. OPTIONAL ENTRY IN OMMS.**

**A. PREVENTATIVE MAINTENANCE (PMS):** THE TWO-PART MAINTENANCE REQUIREMENT CARD (MRC) CODE CONSISTS OF THE MIP SERIES CODE AND THE MRC PERIODICITY CODE. IT IS FOUND IN THE UPPER RIGHT HAND CORNER OF THE MRC CARD. MRCS APPLICABLE TO MORE THAN ONE MIP SERIES WILL HAVE

EACH MIP SERIES LISTED IN THIS BLOCK. ENTER ONLY THE CODE APPROPRIATE TO THE PARTICULAR EQUIPMENT ON WHICH MAINTENANCE IS BEING PERFORMED. AUTHORIZED MAINTENANCE REQUIREMENT PERIODICITIES ARE FOUND IN OPNAVINST 4790.4, SHIP'S MAINTENANCE AND MATERIAL MANAGEMENT (3-M) MANUAL.

**B. CORRECTIVE MAINTENANCE:** IF A CORRECTIVE MAINTENANCE CARD WAS USED, ENTER THE CORRECTIVE MAINTENANCE CARD NUMBER IN THIS BLOCK.

**1ST QA INSP.****MANDATORY ENTRY FOR HARDCOPY AND OMMS (WHEN APPLICABLE).**

PRINT AND SIGN NAME OF THE FIRST INSPECTOR FOR MAINTENANCE IF MORE THAN ONE QUALITY ASSURANCE SIGNATURE (QAI/CDQAI/CDI) IS REQUIRED. **DO NOT USE THIS BLOCK IF ONLY ONE QAI OR CDI SIGNATURE IS REQUIRED.**

**2ND QA INSP.****MANDATORY ENTRY FOR HARDCOPY AND OMMS (WHEN APPLICABLE).**

PRINT AND SIGN NAME OF SECOND QA INSPECTOR (QAI/CDQAI/CDI) WHEN MORE THAN TWO QA SIGNATURES ARE REQUIRED. **DO NOT USE THIS BLOCK IF ONLY ONE OR TWO QA SIGNATURES ARE REQUIRED.**

**FINAL QA INSP.****MANDATORY ENTRY FOR HARDCOPY AND OMMS.**

PRINT AND SIGN NAME OF INSPECTOR FOR A MAINTENANCE ACTION THAT REQUIRES ONLY ONE QA SIGNATURE (QAI/CDQAI/CDI). ENTER THE RATE AND NAME OF THAT INSPECTOR IN THIS BLOCK. FOR A MAINTENANCE ACTION THAT REQUIRES MORE THAN ONE QA SIGNATURE (QAI/CDQAI/CDI), ENTER THE RATE AND NAME OF THE FINAL INSPECTOR AS APPROPRIATE. THIS WILL NORMALLY BE THE FINAL FUNCTIONAL TEST QAI OR CDI.

**NOTE: IF ONLY ONE QAI/CDQAI/CDI SIGNATURE IS REQUIRED, ENTER THAT INSPECTOR'S NAME AND SIGNATURE IN THE FINAL QA INSP. BLOCK.**

**V-2 MAINT OFF.****MANDATORY ENTRY FOR HARDCOPY AND OMMS.**

V-2 ALRE MAINTENANCE OFFICER'S RANK, PRINTED NAME AND SIGNATURE.

MATERIAL CONTROL			VIDS/MAF JCN:	VIDS/MAF JCN:
QNTY	NOMENCLATURE	PART NUMBER	CONTRACT NUMBER	ALRE TOOL CONTROL
				ARE ALL TOOLS ACCOUNTED FOR?
				YES <input type="checkbox"/> NO <input type="checkbox"/>
				W/C TOOL PO (PRINT/SIGN)
				YES <input type="checkbox"/> NO <input type="checkbox"/>
				CENTRAL TOOL PO (PRINT/SIGN)
				NOTE: A LOST/MISSING/BROKEN TOOL REPORT MUST ACCOMPANY THIS MAF IF THE "NO" BLOCK IS CHECKED
				PAGE OF

**VIDS/MAF JCN.**

REFER TO PARAGRAPH 9.9 IN 4790.15D.

**QTY (QUANTITY)**

ENTER THE TOTAL NUMBER OF ITEMS OF THIS SPECIFIC NOMENCLATURE, PART UMBER AND CONTRACT NUMBER BEING REQUISITIONED.

**NOTE: WHEN PARTS ARE ORDERED, THE REQUISITION NUMBER SHALL BE ANNOTATED ON THE CORRESPONDING ALRE MAF CARD.**

**NOMENCLATURE.**

ENTER THE NOMENCLATURE OF THE ITEM BEING REQUISITIONED.

**PART NUMBER.**

ENTER THE PART NUMBER OF THE ITEM BEING REQUISITIONED.

**CONTRACT NUMBER.**

ENTER THE CONTRACT NUMBER OF THE REQUISITIONED ITEM. THIS NUMBER IS USED IN THE INSTALLED PARTS SECTION OF THE INSTALLED/DISCREPANT PARTS LIST (I/DPL) DATABASE. **ALRE MAINTENANCE OFFICER/MAINTENANCE CHIEF SHALL INITIAL CONTRACT NUMBER BLOCK OF ALRE MAF FOR ALL UNKNOWN CONTRACT NUMBER ENTRIES.**

**ALRE TOOL CONTROL.**

THE WORK CENTER SUPERVISOR AND CENTRAL TOOL PETTY OFFICERS WILL "X" THE APPROPRIATE BOX TO INDICATE THAT ALL TOOLS CHECKED OUT FOR THIS MAINTENANCE ACTION HAVE BEEN (OR WERE NOT) ACCOUNTED FOR. WORK CENTER TOOL P.O.'S PRINTED RATE/NAME AND SIGNATURE INDICATE ALL WORK CENTER TOOLS ARE/ARE NOT ACCOUNTED FOR. CENTRAL TOOL P.O.'S PRINTED RATE/NAME AND SIGNATURE INDICATES HE/SHE HAS REVIEWED THE TOOL CHIT AND ATTACHED IT TO THIS MAF. (A LOST/MISSING/BROKEN TOOL REPORT MUST ACCOMPANY THE MAF IF A "NO" BLOCK IS CHECKED.)

PAGE \_ OF \_ .

ENTER THE APPROPRIATE NUMBER IN EACH BLOCK. FOR EXAMPLE: "PAGE 1 OF 1" WOULD INDICATE THAT THERE WERE NO CONTINUATION SHEETS USED. THE ENTRY "PAGE 2 OF 3" WOULD IDENTIFY THE PAGE AS THE SECOND OF THREE PAGES.

**NOTE: CONTINUATION PAGES ARE NORMALLY USED TO ADD ADDITIONAL REMARKS IN BLOCK 35 REMARKS/DESCRIPTION AND TO ANNOTATE ADDITIONAL PARTS IN THE MATERIAL CONTROL SECTION. OMMS IS LIMITED TO FOUR CONTINUATION PAGES WHEN ADDING ADDITIONAL REMARKS/DESCRIPTION (BLOCK 35) COMMENTS.**